USGS
science for a changing world

Earthquake Shaking — Green Alert

GSN   ANSS   USAID FROM THE AMERICAN PEOPLE

PAGER
Version 5

M 5.7, 79 km NW of Corral del Risco (Punta de Mita), Mexico

Origin Time: 2021-07-04 02:45:01 UTC (Sat 20:45:01 local)
Location: 21.2014° N 106.1349° W Depth: 45.6 km

Created: 3 weeks, 4 days after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.
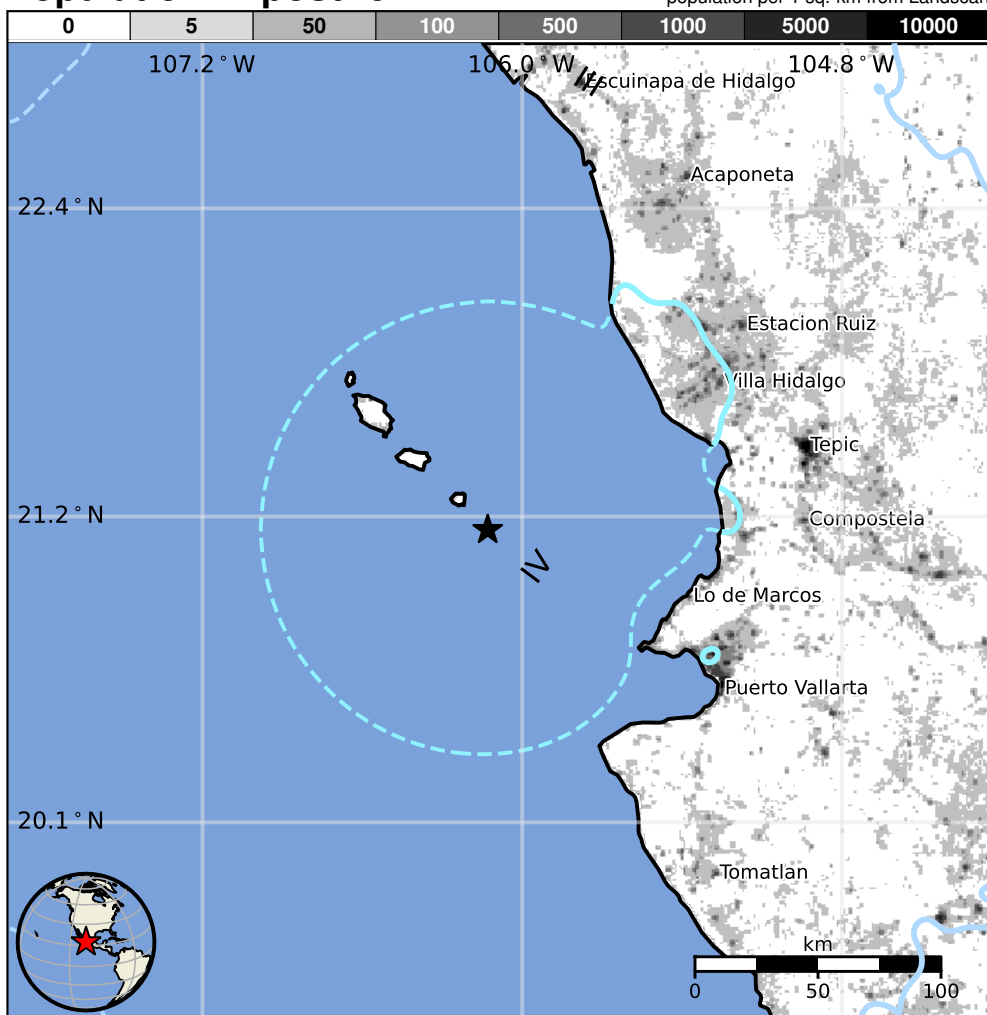
Estimated Economic Losses

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	1,600k	408k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

0	5	50	100	500	1000	5000	10000

Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and adobe block with concrete bond beam construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2003-01-22	335	7.5	VII(300k)	29
1995-10-12	342	5.9	VII(129k)	0
1995-10-09	312	8.0	VIII(89k)	49

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Villa Juarez	3k
IV	Guadalupe Victoria	3k
IV	Canada del Tabaco	2k
IV	San Blas	9k
IV	San Clemente de Lima	1k
IV	Las Jarretaderas	6k
III	**Tepic**	**281k**
III	**Puerto Vallarta**	**187k**
III	**Escuinapa de Hidalgo**	**28k**
III	El Salto	23k
III	Autlan de Navarro	42k

bold cities appear on map.   (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/us7000eik4#pager

Event ID: us7000eik4